Message

From: Wirick, Holiday [wirick.holiday@epa.gov]
Sent: 2/17/2021 3:32:32 PM
To: Fleisig, Erica [Fleisig.Erica@epa.gov]; Kesler, Karen [Kesler.Karen@epa.gov]
CC: Beaman, Joe [Beaman.Joe@epa.gov]
Subject: Re: Selenium Call

Hi Erica, of course. I will take the call notes and will share with everyone as soon as possible after the call.

Talk with you soon.

From: Fleisig, Erica <Fleisig.Erica@epa.gov>
Sent: Wednesday, February 17, 2021 7:00 AM
To: Kesler, Karen <Kesler.Karen@epa.gov>; Wirick, Holiday <wirick.holiday@epa.gov>
Cc: Beaman, Joe <Beaman.Joe@epa.gov>
Subject: RE: Selenium Call

Hi guys,

Sara scheduled a call that I need to attend that overlaps with this call with Pete. I'll plan to join this, introduce myself, and have it on in the background, but I unfortunately won't be able to pay close attention to help with note-taking. Holly, if you don't mind please sharing your notes after the call (maybe as draft for Karen and Joe to add to as needed?) that would be fantastic. Thank you guys, and sorry!

-Erica

Erica Fleisig
Team Leader, Regional Water Quality Standards Branch
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(202) 566-1057

-----Original Appointment-----
From: Wax, Peter N. <pwax@nd.gov>
Sent: Thursday, January 28, 2021 10:00 AM
To: Wax, Peter N.; Fleisig, Erica; Wirick, Holiday; jnett@nd.gov; Wert, Joshua E.; Aaron Larsen; Kesler, Karen; Beaman, Joe
Cc: Sengco, Mario; Quarnstrom, James E.; Ussatis, Todd J.
Subject: Selenium Call
When: Wednesday, February 17, 2021 10:00 AM-11:00 AM (UTC-06:00) Central Time (US & Canada).
Where: Teams Call

DRAFT AGENDA FOR CALL (PLEASE ADD AS NEEDED)

Goals of Meeting (Selenium in fish flesh and water quality monitoring 2021)

1. Identify data needs development of water column aquatic life criteria
2. SOP (Collection/transportation of Samples)
3. Analytical Method for Selenium in Water.
4. Analytical Method for Selenium in Flesh.

Stream Data Collection
Timing: Summer through late fall (Sampling is collocated with wadable rivers and streams work).
Location: Twenty (20) stream sites in Ecoregion 46.

Sample Type/Analytes: Whole Fish.
Sample Analysis: Mercury and Selenium Dry Weight

Question 1: What is the preferred analytical (Laboratory) method?
Question 2: Maximum detection limit required for interpretation?
Question 4: Is electro-shocking acceptable method of collection?

Sample Water Analysis: Water Column, Trace Elements total & dissolved, nutrients, major cations & anions.

Question 1: What is the preferred analytical method for selenium dissolved and mercury?
Note: Based on Historical data, fish species will be small in size. Examples: Fathead Minnow, stickleback, Common Shiner, Black Bullhead, White Sucker, Darters, Dace, Common Carp.

Sample Numbers: Target a 5 fish (3 minimum) per composite, and a minimum weight of 20 grams. Ideally all 5 samples are of discrete species but if not possible multiple samples of the same species until at least 5 are met. If more than 5 species present collect as many 3 to 5 fish composites as possible.
Total 127 samples (100 regular, 3 repeats, and 12 QA/QC).

Question 1: Is 10% QA/QC adequate?
Question 2: Is multiple samples of same species acceptable?

Lake Data Collection Note: Plan A: Lake sample with new shocking boat. Plan B is coordinate with the North Dakota Game and Fish Department

Timing: Summer through late fall.
Location: Ecoregion 46 (Sampling is collocated with Ambient Lake Sampling, HABs investigations and possible the NDG&F survey work).
Sample Type: Biopsy flesh pugs, fillets, and possibly whole Fish (based on labor restriction).
Sample Flesh Analysis: Mercury and Selenium Dry Weight.
Sample Water Analysis: Water Column, Trace Elements total & dissolved, nutrients, major cations & anions.

Question 1: What is the preferred analytical (Laboratory) method?
Question 2: Maximum detection limit required for interpretation?
Question 3: Is electro-shocking acceptable method of collection?

Sample Water Analysis: Water Column, Trace Elements total & dissolved, nutrients, major cations & anions.

Question: What is the preferred analytical method for selenium dissolved and mercury?

Sample Numbers: Target a 5 fish (3 minimum) per composite, and a minimum weight of 20 grams. Ideally all 5 samples are of discrete species but if not possible, multiple samples of the same species until at least 5 are met. If more than 5 species present collect as many 3 to 5 fish composites as possible.
Total 83 samples (75 regular, 8 QA/QC).

Question: Is 10% QA/QC adequate?
Question: Is multiple samples of same species acceptable?

Opportunist Fish Collection
Timing: Spring through late fall.
Location: Any Ecoregion (Samples will be dependent on opportunities to obtain fish flesh or possible ovum material from other natural resource agency work). Examples my include NDG&F or USFWS fish population survey. Locations my be in Ecoregion 46 or areas bordering ecoregion 46 but all within the boundaries of the state.
Sample Types: : (1) Whole (2) Muscle, (3) Ovum.
Sample Analytes: Mercury and Selenium Dry Weight for whole fish and muscle and Selenium Dry Weight for ovum.
Sample Numbers: Unknown but no more than 50.
Sample Water Analysis: Water Column, Trace Elements total & dissolved, nutrients, major cations & anions.
Keep your powder dry,

Pete

Microsoft Teams meeting

Join on your computer or mobile app
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teams@join.nd.gov
Video Conference ID: 115 595 641 0
Alternate VTC dialing instructions

Or call in (audio only)
Ex. 6 Personal Privacy (PP) United States, Fargo
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